Jun-Min Wang

List of Publications by Year
in descending order

139 papers	1,839 citations	304743 22 h-index	330143 37 g-index
140 all docs	140 docs citations	140 times ranked	541 citing authors

#	Article	IF	Citations
1	Sliding mode control to stabilization of cascaded heat PDEâ€“ODE systems subject to boundary control matched disturbance. Automatica, 2015, 52, 23-34.	5.0	207
2	Exponential Stabilization ofLaminated Beams with Structural Damping and Boundary Feedback Controls. SIAM Journal on Control and Optimization, 2005, 44, 1575-1597.	2.1	96
3	Stabilization of an ODEâ€“SchrÃ¶dinger Cascade. Systems and Control Letters, 2013, 62, 503-510.	2.3	93
4	Stabilization and Gevrey Regularity of a SchrÃ¶dinger Equation in Boundary Feedback With a Heat Equation. IEEE Transactions on Automatic Control, 2012, 57, 179-185.	5.7	90
5	Wave Equation Stabilization by Delays Equal to Even Multiples of the Wave Propagation Time. SIAM Journal on Control and Optimization, 2011, 49, 517-554.	2.1	56
6	Boundary stabilization of a cascade of ODEâ€wave systems subject to boundary control matched disturbance. International Journal of Robust and Nonlinear Control, 2017, 27, 252-280.	3.7	47
7	Dynamic stabilization of an Eulerâ€“Bernoulli beam under boundary control and non-collocated observation. Systems and Control Letters, 2008, 57, 740-749.	2.3	46
8	On the stability of swelling porous elastic soils with fluid saturation by one internal damping. IMA Journal of Applied Mathematics, 2006, 71, 565-582.	1.6	43
9	On the -semigroup generation and exponential stability resulting from a shear force feedback on a rotating beam. Systems and Control Letters, 2005, 54, 557-574.	2.3	42
10	Boundary Stabilization of Wave Equation With Velocity Recirculation. IEEE Transactions on Automatic Control, 2017, 62, 4760-4767.	5.7	42
11	Stabilization of an unstable reactionâ€“diffusion PDE cascaded with a heat equation. Systems and Control Letters, 2015, 76, 8-18.	2.3	38
12	Mixed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e400" altimg="si7.gif"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> sampled-data output feedback control design for a semi-linear parabolic PDE in the sense of spatial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML". Automatica, 2019, 103, 282-293.	5.0	38
13	Spectral analysis and system of fundamental solutions for Timoshenko beams. Applied Mathematics Letters, 2005, 18, 127-134.	2.7	34
14	Stabilization of One-Dimensional Wave Equation With Nonlinear Boundary Condition Subject to Boundary Control Matched Disturbance. IEEE Transactions on Automatic Control, 2019, 64, 3068-3073.	5.7	34
15	Stabilization and optimal decay rate for a non-homogeneous rotating body-beam with dynamic boundary controls. Journal of Mathematical Analysis and Applications, 2006, 318, 667-691.	1.0	32
16	Stability of an interconnected system of eulerâ^'bernoulli beam and heat equation with boundary coupling. ESAIM - Control, Optimisation and Calculus of Variations, 2015, 21, 1029-1052.	1.3	28
17	Boundary feedback stabilization of a three-layer sandwich beam: Riesz basis approach. ESAIM - Control, Optimisation and Calculus of Variations, 2006, 12, 12-34.	1.3	27
18	Boundary Feedback Stabilization of a Class of Coupled Hyperbolic Equations With Nonlocal Terms. IEEE Transactions on Automatic Control, 2018, 63, 2633-2640.	5.7	27

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19	Riesz basis and stabilization for the flexible structure of a symmetric tree-shaped beam network. Mathematical Methods in the Applied Sciences, 2008, 31, 289-314.	2.3	26
20	Output regulation of antiâ€stable coupled wave equations via the backstepping technique. IET Control Theory and Applications, 2018, 12, 431-445.	2.1	25
21	Control of Wave and Beam PDEs. Communications and Control Engineering, 2019, , .	1.6	25
22	ADRC Dynamic Stabilization of an Unstable Heat Equation. IEEE Transactions on Automatic Control, 2020, 65, 4424-4429.	5.7	25
23	Sliding Mode Control of the Orr–Sommerfeld Equation Cascaded by Both the Squire Equation and ODE in the Presence of Boundary Disturbances. SIAM Journal on Control and Optimization, 2018, 56, 837-867.	2.1	24
24	On dynamic behavior of a hyperbolic system derived from a thermoelastic equation with memory type. Journal of the Franklin Institute, 2007, 344, 75-96.	3.4	23
25	Dynamic behavior of a heat equation with memory. Mathematical Methods in the Applied Sciences, 2009, 32, 1287-1310.	2.3	23
26	Stabilization of the Eulerâ€“Bernoulli equation via boundary connection with heat equation. Mathematics of Control, Signals, and Systems, 2014, 26, 77-118.	2.3	23
27	Riesz Basis Generation of Abstract Second-Order Partial Differential Equation Systems with General Non-Separated Boundary Conditions. Numerical Functional Analysis and Optimization, 2006, 27, 291-328.	1.4	22
28	On the Stabilization of the Disk-Beam System via Torque and Direct Strain Feedback Controls. IEEE Transactions on Automatic Control, 2015, 60, 3006-3011.	5.7	22
29	Backstepping State Feedback Regulator Design for an Unstable Reaction-Diffusion PDE with Long Time Delay. Journal of Dynamical and Control Systems, 2018, 24, 563-576.	0.8	22
30	Exponential stability of variable coefficients Rayleigh beams under boundary feedback controls: a Riesz basis approach. Systems and Control Letters, 2004, 51, 33-50.	2.3	21
31	Exponential stability and spectral analysis of the pendulum system under position and delayed position feedbacks. International Journal of Control, 2011, 84, 904-915.	1.9	21
32	Sliding mode control for Nâ€coupled reactionâ€diffusion PDEs with boundary input disturbances. International Journal of Robust and Nonlinear Control, 2019, 29, 1437-1461.	3.7	20
33	Riesz basis property, exponential stability of variable coefficient Eulerâ€“Bernoulli beams with indefinite damping. IMA Journal of Applied Mathematics, 2005, 70, 459-477.	1.6	19
34	The active disturbance rejection control of the rotating diskâ€“beam system with boundary input disturbances. International Journal of Control, 2016, 89, 2322-2335.	1.9	18
35	Exponential stability of a non-homogeneous rotating diskâ€“beamâ€“mass system. Journal of Mathematical Analysis and Applications, 2015, 423, 1243-1261.	1.0	16
36	Dynamic Compensator Design of Linear Parabolic MIMO PDEs in N-Dimensional Spatial Domain. IEEE Transactions on Automatic Control, 2021, 66, 1399-1406.	5.7	16

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37	Optimal Energy Decay for a Nonhomogeneous Flexible Beam with a Tip Mass. Journal of Dynamical and Control Systems, 2007, 13, 37-53.	0.8	15
38	Exponential stability and spectral analysis of the inverted pendulum system under two delayed position feedbacks. Journal of Dynamical and Control Systems, 2012, 18, 269-295.	0.8	14
39	NonDissipative Torque and Shear Force Controls of a Rotating Flexible Structure. SIAM Journal on Control and Optimization, 2014, 52, 3287-3311.	2.1	14
40	Boundary feedback stabilization and Riesz basis property of a 1-d first order hyperbolic linear system with <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://ww. Journal of Differenti	2.2	13
41	Output-Feedback Stabilization of an Anti-stable SchrÃ¶dinger Equation by Boundary Feedback with Only Displacement Observation. Journal of Dynamical and Control Systems, 2013, 19, 471-482.	0.8	13
42	Implosion of the Argentinian submarine ARA San Juan S-42 undersea: Modeling and simulation. Communications in Nonlinear Science and Numerical Simulation, 2020, 91, 105397.	3.3	13
43	Stabilization of a One-Dimensional Dam-River System: Nondissipative and Noncollocated Case. Journal of Optimization Theory and Applications, 2007, 134, 223-239.	1.5	12
44	A Riesz Basis Methodology for Proportional and Integral Output Regulation of a One-Dimensional Diffusive-Wave Equation. SIAM Journal on Control and Optimization, 2008, 47, 2275-2302.	2.1	12
45	Transmission problem of SchrÃ¶dinger and wave equation with viscous damping. Applied Mathematics Letters, 2016, 54, 7-14.	2.7	12
46	Exponential stability of an active constrained layer beam actuated by a voltage source without magnetic effects. Journal of Mathematical Analysis and Applications, 2017, 448, 1204-1227.	1.0	12
47	The Direct Feedback Control and Exponential Stabilization of a Coupled Heat PDE-ODE System with Dirichlet Boundary Interconnection. International Journal of Control, Automation and Systems, 2019, 17, 38-45.	2.7	12
48	Backstepping-based adaptive error feedback regulator design for one-dimensional reaction-diffusion equation. Journal of Mathematical Analysis and Applications, 2020, 484, 123666.	1.0	12
49	Backstepping-based output regulation of ordinary differential equations cascaded by wave equation with in-domain anti-damping. Transactions of the Institute of Measurement and Control, 2019, 41, 246-262.	1.7	11
50	Exponential input-to-state stabilization of an ODE cascaded with a reactionâ€“diffusion equation subject to disturbances. Automatica, 2021, 133, 109885.	5.0	11
51	Output Tracking for Oneâ€Dimensional SchrÃ¶dinger Equation subject to Boundary Disturbance. Asian Journal of Control, 2018, 20, 659-668.	3.0	10
52	Inverse problems for the heat equation with memory. Inverse Problems and Imaging, 2019, 13, 31-38.	1.1	10
53	The well-posedness and stability of a beam equation with conjugate variables assigned at the same boundary point. IEEE Transactions on Automatic Control, 2005, 50, 2087-2093.	5.7	9
54	Sliding Mode Control to Stabilization of a Tip-Force Destabilized Shear Beam Subject to Boundary Control Matched Disturbance. Journal of Dynamical and Control Systems, 2016, 22, 117-128.	0.8	9

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55	Inputâ€toâ€state stability of an ODEâ€heat cascade system with disturbances. IET Control Theory and Applications, 2019, 13, 191-202.	2.1	9
56	A backstepping approach to adaptive error feedback regulator design for one-dimensional linear parabolic PIDEs. Journal of Mathematical Analysis and Applications, 2021, 503, 125310.	1.0	9
57	Remarks on the application of the Keldysh theorem to the completeness of root subspace of non-self-adjoint operators and comments on â€œSpectral operators generated by Timoshenko beam modelâ€. Systems and Control Letters, 2006, 55, 1029-1032.	2.3	8
58	Pointwise stabilisation of a string with time delay in the observation. International Journal of Control, 2017, 90, 2394-2405.	1.9	8
59	Stabilization of a 2ÂÃ—Â2 system of hyperbolic PDEs with recirculation in the unactuated channel. Automatica, 2020, 120, 109147.	5.0	8
60	Stability of an interconnected system of Eulerâ€“Bernoulli beam and wave equation through boundary coupling. Systems and Control Letters, 2020, 138, 104664.	2.3	8
61	Stabilization of two coupled wave equations with joint anti-damping and non-collocated control. Automatica, 2022, 135, 109995.	5.0	8
62	Stability of a nonuniform Rayleigh beam with indefinite damping. Systems and Control Letters, 2006, 55, 863-870.	2.3	7
63	Spectral analysis and stabilization of a coupled wave-ODE system. Journal of Systems Science and Complexity, 2014, 27, 463-475.	2.8	7
64	Stability of an interconnected SchrÃ¶dingerâ€“heat system in a torus region. Mathematical Methods in the Applied Sciences, 2016, 39, 3735-3749.	2.3	7
65	Pointwise feedback stabilization of an Euler-Bernoulli beam in observations with time delay. ESAIM - Control, Optimisation and Calculus of Variations, 2019, 25, 4.	1.3	7
66	Energy decay estimates for a twoâ€dimensional coupled waveâ€plate system with localized frictional damping. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e201900030.	1.6	7
67	Static boundary feedback stabilization of an anti-stable wave equation with both collocated and non-collocated measurements. Systems and Control Letters, 2021, 154, 104967.	2.3	7
68	On the dynamic behavior and stability of controlled connected Rayleigh beams under pointwise output feedback. ESAIM - Control, Optimisation and Calculus of Variations, 2008, 14, 632-656.	1.3	6
69	Exponential stability and spectral analysis of a delayed ring neural network with a small-world connection. Nonlinear Dynamics, 2012, 68, 77-93.	5.2	6
70	Spectral analysis and exponential stability of one-dimensional wave equation with viscoelastic damping. Journal of Mathematical Analysis and Applications, 2014, 410, 499-512.	1.0	6
71	Stabilization of a non-homogeneous rotating body-beam system with the torque and nonlinear distributed controls. Journal of Systems Science and Complexity, 2017, 30, 616-626.	2.8	6
72	Output regulation of a reaction-diffusion PDE with long time delay using backstepping approach * *This work was supported by National Natural Science Foundation of China (grant number 61673061). IFAC-PapersOnLine, 2017, 50, 651-656.	0.9	6

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73	Exponential stability of a coupled Heat-ODE system. , 2013, , .		5
74	Stabilization of the pendulum system by coupling with a heat equation. JVC/Journal of Vibration and Control, 2014, 20, 2443-2449.	2.6	5
75	Exact controllability of a micro beam with boundary bending moment. International Journal of Control, 2019, 92, 1335-1343.	1.9	5
76	Exponential Stability of a SchrÃ¶dinger Equation Through Boundary Coupling a Wave Equation. IEEE Transactions on Automatic Control, 2020, 65, 3136-3142.	5.7	5
77	Dynamic feedback stabilization of an unstable wave equation. Automatica, 2020, 121, 109165.	5.0	5
78	Stability analysis for an Euler-Bernoulli beam under local internal control and boundary observation. Journal of Control Theory and Applications, 2008, 6, 341-350.	0.8	4
79	Stability of a Damped Hyperbolic <scp>T</scp>imoshenko System Coupled with a Heat Equation. Asian Journal of Control, 2014, 16, 546-555.	3.0	4
80	Stabilisation of an anti-stable joint string with boundary disturbance. International Journal of Control, 2020, 93, 1027-1038.	1.9	4
81	On resonances in transversally vibrating strings induced by an external force and a time-dependent coefficient in a Robin boundary condition. Journal of Sound and Vibration, 2021, 512, 116356.	3.9	4
82	Stabilization of the cascaded ODE-Schrodinger equations subject to observation with time delay. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 1027-1035.	13.1	3
83	Chaotic oscillations of wave equations due to nonlinear boundary condition. Journal of Mathematical Physics, 2020, 61, .	1.1	3
84	Input-to-state stabilization of an ODE-wave system with disturbances. Mathematics of Control, Signals, and Systems, 2020, 32, 489-515.	2.3	3
85	Output feedback stabilization of cascaded ODEâ€Wave equations with time delay in observation. Asian Journal of Control, 2021, 23, 449-462.	3.0	3
86	The stabilization of an Euler-Bernoulli beam under boundary control and non-collocated observation. , 2007, , .		2
87	On the stability of an interconnected system of Euler-Bernoulli beam and heat equation with boundary coupling. , 2011, , .		2
88	Stabilization of an ODE-Schrodinger Cascade System with Time Delay in Observation. , 2018, , .		2
89	Moment approach to the boundary exact controllability of an active constrained layer beam. Journal of Mathematical Analysis and Applications, 2018, 465, 643-657.	1.0	2
90	The spectral analysis and exponential stability of a biâ€directional coupled waveâ€ODE system. Mathematical Methods in the Applied Sciences, 2019, 42, 2774-2784.	2.3	2

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91	Stabilization of a rotating flexible structure subject to matched input disturbances. Transactions of the Institute of Measurement and Control, 2019, 41, 2864-2874.	1.7	2
92	Chaotic oscillations of one-dimensional coupled wave equations with mixed energy transports. Nonlinear Dynamics, 2020, 99, 2277-2290.	5.2	2
93	Stability of ODE-PDE hybrid sampled data system. , 2020, , .		2
94	Spatiotemporally asynchronous sampled-data control of a linear parabolic PDE on a hypercube. International Journal of Control, 2022, 95, 3326-3335.	1.9	2
95	Input-to-state stabilization of coupled parabolic PDEs subject to external disturbances. IMA Journal of Mathematical Control and Information, 2022, 39, 185-218.	1.7	2
96	A New Approach to the Stabilization of a Rayleigh Beam Using Collocated Control and Observation. , 2006, , .		1
97	Boundary feedback stabilization of a SchrÃ¶dinger equation interconnected with a heat equation. Journal of Control Theory and Applications, 2013, 11, 558-562.	0.8	1
98	Dynamic Boundary Stabilization of a SchrÃ¶dinger Equation Through a Kelvin-Voigt Damped Wave Equation. , 2016, , 121-131.		1
99	Controllability of a multichannel system. Journal of Differential Equations, 2018, 264, 2538-2552.	2.2	1
100	Riesz Basis Generation: Dual-Basis Approach. Communications and Control Engineering, 2019, , 313-438.	1.6	1
101	Chaotic Dynamical Behavior of Coupled One-Dimensional Wave Equations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150115.	1.7	1
102	Adaptive output regulation for oneâ€dimensional parabolic equation with nonlocal term. International Journal of Adaptive Control and Signal Processing, 2021, 35, 1805-1823.	4.1	1
103	Tracking Control of a Wave Equation with Boundary Disturbance: Combining ADRC and Differential Flatness. , 2021, , .		1
104	Stability of Transmission Wave-Plate Equations with Local Indirect Damping. Acta Applicandae Mathematicae, 2022, 177, 1.	1.0	1
105	Output feedback stabilisation of an axially moving string subject to a spring-mass-dashpot. International Journal of Control, 2023, 96, 2157-2166.	1.9	1
106	Boundary tracking control of an unstable cascaded heat system with a nonâ€collocated feedback. IET Control Theory and Applications, 2022, 16, 1446-1457.	2.1	1
107	Stabilization of swelling porous elastic soils with fluid saturation by one internal damping. , 0, , .		0
108	On dynamic behavior of a hyperbolic thermoelastic system with memory type in terms of eigenfrequencies. , 2006, , .		0

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109	Stability Analysis for an Euler-Bernoulli Beam under Local Internal Control and Boundary Observation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 11322-11327.	0.4	0
110	Frequency analysis of a wave equation with Kelvin-Voigt damping. , 2009, , .		0
111	Stability of a delayed ring neural network with one small-world connection. , 2011, , .		0
112	The Stabilization of One-Dimensional Wave Equation by Delayed Output Feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12538-12543.	0.4	0
113	Stability analysis of a damped Timoshenko beam with Cattaneo's law. , 2012, , .		0
114	A Riesz basis approach to exponential stability in thermoelasticity of type III. , 2013, , .		0
115	On the stabilization of an irrigation channel with a cascade of 2 pools: A linearized case. , 2013, , .		0
116	Control of a reaction-diffusion PDE cascaded with a heat equation. , 2013, , .		0
117	Exponential stability of a non-homogeneous rotating body-beam system with variable coefficients. , 2014, , .		0
118	The stability for a one-dimensional unstable heat equation with nonlinear boundary uncertainty disturbance. , 2014, , .		0
119	Stabilization of a cascade system of ODE-PDE subject to boundary control matched disturbance. , 2014, , .		0
120	Dynamic boundary stabilization of Euler-Bernoulli beam through a Kelvin-Voigt damped wave equation. , 2014, , .		0
121	Dynamic behavior of a one-dimensional thermoviscoelastic system. , 2015, , .		0
122	Stabilization of a pendulum in dynamic boundary feedback with a memory type heat equation. IMA Journal of Mathematical Control and Information, 2015, , dnv039.	1.7	0
123	Nondissipative controllers design of a rotating flexible structure subject to boundary control matched disturbances. , 2016, , .		0
124	Stability analysis of an Euler-Bernoulli beam with joint controls at an arbitrary internal point. , 2016, , .		0
125	Stabilization of one-dimensional wave equation with pointwise dissipation and external disturbance. , 2016, , .		0
126	Riesz basis approach to feedback stabilization for a cantilever beam system. , 2017, , .		0

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127	Stabilization of the Interconnected Schrodinger and Wave Equations with Only Boundary Control at the Wave Equation. , 2018, , .		0
128	Riesz Basis Generation: Comparison Method. Communications and Control Engineering, 2019, , 197-312.	1.6	0
129	Riesz Basis Generation: Green Function Approach. Communications and Control Engineering, 2019, , 439-504.	1.6	0
130	Stabilization of Coupled Systems Through Boundary Connection. Communications and Control Engineering, 2019, , 505-592.	1.6	0
131	Stabilization of the Cascaded ODE-Heat Equations with Time Delay in Boundary Observation. , 2019, , .		0
132	Output Feedback Stabilization of Non-local Wave Equation with Time Delay. , 2019, , .		0
133	Energy decay rates for the coupled wave and SchrÃ¶dinger system with boundary control. , 2019, , .		0
134	Stabilisation of SchrÃ¶dinger equation in dynamic boundary feedback with a memory-typed heat equation. International Journal of Control, 2019, 92, 416-430.	1.9	0
135	Output feedback stabilization of an ODE-transport cascade system. , 2021, , .		0
136	ODE compensation for an unstable heat equation. , 2020, , .		0
137	Input-to-State Stabilization for an ODE Cascaded by a Parabolic PIDE with Disturbances. , 2021, , .		0
138	Chaotic Oscillations of 1D Wave Equation Due to a Generalized Nonlinear Energy-Decay Boundary Condition. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	1.7	0
139	Robust output regulation of a thermoelastic system. Systems and Control Letters, 2022, 167, 105309.	2.3	0